

Clackamas Community College

Online Course/Outline Submission System

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Section #1 General Course Information**Department:**Apprenticeship**Submitter**

First Name: Shelly

Last Name: Tracy

Phone: 0945

Email: shellyt

Course Prefix and Number:APR - 275IE

Credits:3**Contact hours**

Lecture (# of hours): 36

Lec/lab (# of hours):

Lab (# of hours):

Total course hours: 36

For each credit, the student will be expected to spend, on average, 3 hours per week in combination of in-class and out-of-class activity.

Course Title:NEC Analysis IV**Course Description:**

This course takes an in-depth look at Chapters 6 – 8 of the National Electrical Code (NEC) NFPA 70 as well as Oregon OARS and Washington WAC. Test-taking procedures and preparation for journey-level electrical exam are emphasized.

Type of Course:Career Technical Apprenticeship

Can this course be repeated for credit in a degree?

No

Does this course map to any general education outcome(s)?

No

Is this course part of an AAS or related certificate of completion?

Yes

Name of degree(s) and/or certificate(s):Electrician ApprenticeshipTechnologies AAS and CC

Are there prerequisites to this course?

No

Are there corequisites to this course?

No

Are there any requirements or recommendations for students taken this course?

No

Are there similar courses existing in other programs or disciplines at CCC?

No

Will this class use library resources?

No

Is there any other potential impact on another department?

No

Does this course belong on the Related Instruction list?

No

GRADING METHOD:

A-F Only

Audit:Yes

When do you plan to offer this course?

✓ Not every term

Is this course equivalent to another?

If yes, they must have the same description and outcomes.

No

Will this course appear in the college catalog?

No

Will this course appear in the schedule?

No

Student Learning Outcomes:

Upon successful completion of this course, students should be able to:

1. identify the different requirements for electric signs,
2. explain the requirements for elevators, escalators, and chair lifts;
3. design feeders supplying electric vehicle spaces,
4. identify the requirements of welding equipment,
5. explain the different aspects of wiring a swimming pool or hot tub,
6. outline the requirements of solar photovoltaic systems,
7. identify the difference between emergency systems, legally-required systems, and optional standby systems;
8. describe the different types of communication systems.

This course does not include assessable General Education outcomes.

Major Topic Outline:

1. Wiring requirements of signs.
2. Wiring requirements of elevators and walkways.
3. Size feeders for welders.
4. Low voltage wiring types and methods.
5. Solar voltaic and wind systems.
6. Emergency systems.
7. Utility interconnection of systems.
8. Communication systems.
9. Journey-level test prep.
10. Oregon and Washington rules and standards.

Does the content of this class relate to job skills in any of the following areas:

- | | |
|--------------------------------------|-----------|
| 1. Increased energy efficiency | No |
| 2. Produce renewable energy | No |
| 3. Prevent environmental degradation | No |
| 4. Clean up natural environment | No |
| 5. Supports green services | No |

Percent of course:0%

First term to be offered:

Next available term after approval

:
